

Aquatic Resources Impact Table
Riverine Resources
Northampton County

Identification					Location					Stream Temporary Impacts		Stream Permanent Impacts		Floodway Temporary Impacts		Floodway Permanent Impacts		Crossing Information			
Watercourse ID and Crossing Number ¹	Watercourse Name	Ch 93 Designated/ Existing Use ²	Wild Trout ³	Stocked Trout ⁴	Milepost ⁵	Latitude	Longitude	Municipality ⁶	Quadrangle	Temp. Crossing Length (feet) ⁷	Temp. Impact Area (acres) ⁸	Perm. Crossing Length (feet) ⁹	Perm. Impact Area (acres) ¹⁰	Temp. Crossing Length (feet) ⁷	Temp. Impact Area (acres) ⁸	Perm. Crossing Length (feet) ⁹	Perm. Impact Area (acres) ¹⁰	Primary Pipeline Crossing Method ¹¹	Secondary Pipeline Crossing Method ¹¹	Tertiary Pipeline Crossing Method ¹¹	Temp. Equipment Crossing
PennEast Mainline																					
080917_WA_1002_P_MI - 1	UNT to Indian Creek	CWF, MF	III	-	52.7R3	40.800358	-75.474329	Moore Twp	Kunkletown	18	0.00	-	-	320	0.09	248	0.33	N/A	N/A	N/A	Mat Bridge or equivalent
080917_WA_1002_P_MI - 2	UNT to Indian Creek	CWF, MF	III	-	52.7R3	40.800152	-75.474330	Moore Twp	Kunkletown	-	-	5	0.01	-	-	-	-	DPX	FX	CD	Mat Bridge or equivalent
110217_WA_1003_P_MI	UNT to Indian Creek	CWF, MF	III	TS	52.9R3	40.797543	-75.475202	Moore Twp	Kunkletown	-	-	5	0.01	99	0.02	115	0.12	DPX	FX	CD	Mat Bridge or equivalent
110217_WA_1002_I_MI	UNT to Indian Creek	CWF, MF	III	TS	52.9R3	40.797769	-75.475306	Moore Twp	Kunkletown	-	-	-	-	-	0.03	88	0.05	N/A	N/A	N/A	N/A - Workspace
080917_WA_1001_I_MI	UNT to Indian Creek	CWF, MF	III	-	53.2R3	40.793855	-75.476191	Moore Twp	Kunkletown	2	0.00	3	0.00	140	0.08	140	0.16	DPX	FX	DX-NF	Mat Bridge or equivalent
050217_MB_1002_I_MI	UNT to Indian Creek	CWF, MF	III	-	53.3R3	40.792107	-75.476103	Moore Twp	Kunkletown	8	0.00	5	0.01	142	0.06	138	0.13	DPX	FX	DX-NF	Mat Bridge or equivalent
050217_MB_1001_P_IN	UNT to Indian Creek	CWF, MF	III	TS	53.4R3	40.790992	-75.475861	Moore Twp	Kunkletown	14	0.01	10	0.01	135	0.06	139	0.15	DPX	FX	CD	Mat Bridge or equivalent
102815_WA_1001_E_MI	UNT to Hokendauqua Creek	CWF, MF	III	-	55.7	40.783732	-75.459065	Moore Twp	Kunkletown	14	0.01	14	0.01	153	0.08	153	0.15	DPX	FX	DX-NF	Mat Bridge or equivalent
051215_JC_1002_P_IN	Hokendauqua Creek	CWF, MF	III	TS	55.9	40.781304	-75.457677	Moore Twp	Kunkletown	71	0.04	54	0.06	164	0.05	163	0.12	DPX	FX	CD	Mat Bridge or equivalent
051215_JC_1001_E_MI	UNT to Hokendauqua Creek	CWF, MF	III	-	55.9	40.780606	-75.457279	Moore Twp	Kunkletown	5	0.00	5	0.01	107	0.04	67	0.07	DPX	FX	DX-NF	Mat Bridge or equivalent
051215_JC_1003_I_MI	UNT to Hokendauqua Creek	CWF, MF	III	TS	56	40.779940	-75.457029	Moore Twp	Kunkletown	2	0.00	2	0.00	123	0.01	60	0.05	BX	BX	BX	Mat Bridge or equivalent
062218_WA_1000_P_MI	UNT to Hokendauqua Creek	CWF, MF	III	TS	56	40.779356	-75.456814	Moore Twp	Kunkletown	2	0.00	3	0.00	53	0.01	53	0.03	DPX	FX	CD	Mat Bridge or equivalent

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Watercourse ID and Crossing Number ¹	Watercourse Name	Ch 93 Designated/ Existing Use ²	Wild Trout ³	Stocked Trout ⁴	Milepost ⁵	Latitude	Longitude	Municipality ⁶	Quadrangle	Temp. Crossing Length (feet) ⁷	Temp. Impact Area (acres) ⁸	Perm. Crossing Length (feet) ⁹	Perm. Impact Area (acres) ¹⁰	Temp. Crossing Length (feet) ⁷	Temp. Impact Area (acres) ⁸	Perm. Crossing Length (feet) ⁹	Perm. Impact Area (acres) ¹⁰	Primary Pipeline Crossing Method ¹¹	Secondary Pipeline Crossing Method ¹¹	Tertiary Pipeline Crossing Method ¹¹	Temp. Equipment Crossing
050417_GM_1001_I_MI	UNT to Hokendauqua Creek	CWF, MF	III	-	56.6	40.772483	-75.449205	Kidder Twp	Kunkletown	-	-	-	-	77	0.03	-	-	N/A	N/A	N/A	N/A - Workspace
050417_GM_1002_P_MI	UNT to Hokendauqua Creek	CWF, MF	III	-	56.7	40.772084	-75.448600	Moore Twp	Kunkletown	12	0.00	10	0.01	191	0.11	191	0.19	DPX	FX	CD	Mat Bridge or equivalent
050417_GM_1003_P_IN	UNT to Hokendauqua Creek	CWF, MF	III	-	56.7	40.771677	-75.448290	Moore Twp	Kunkletown	18	0.01	17	0.02	136	0.05	136	0.11	DPX	FX	CD	Mat Bridge or equivalent
071917_MB_1001_I_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	58R2	40.760247	-75.429116	Moore Twp	Kunkletown	2	0.00	2	0.00	122	0.07	122	0.13	DPX	FX	DX-NF	Mat Bridge or equivalent
052218_WA_1001_E_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	58.1R2	40.759968	-75.427902	Moore Twp	Kunkletown	4	0.00	4	0.00	106	0.06	105	0.12	DPX	FX	DX-NF	Mat Bridge or equivalent
052218_WA_1002_P_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	58.5	40.755227	-75.423054	Moore Twp	Kunkletown	6	0.00	6	0.01	135	0.07	111	0.11	DPX	FX	CD	Mat Bridge or equivalent
052218_WA_1003_P_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	58.5	40.755118	-75.422932	Moore Twp	Kunkletown	5	0.00	4	0.00	73	0.04	62	0.06	DPX	FX	CD	Mat Bridge or equivalent
090314_DB_1011_E_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	59	40.749646	-75.416448	Moore Twp	Catasauqua	5	0.00	5	0.01	112	0.06	112	0.12	DPX	FX	DX-NF	Mat Bridge or equivalent
090414_DB_1012_I_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	59.2	40.747407	-75.413558	Moore Twp	Catasauqua	5	0.00	5	0.01	87	0.02	87	0.08	DPX	FX	DX-NF	Mat Bridge or equivalent
090414_DB_1013_I_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	59.2	40.747235	-75.413335	Moore Twp	Catasauqua	8	0.00	8	0.02	173	0.07	168	0.16	DPX	FX	DX-NF	Mat Bridge or equivalent
051215_JC_1005_P_IN	Monocacy Creek	HQ-CWF, MF	I, III	TS	60.3	40.737018	-75.399488	Moore Twp	Catasauqua	26	0.01	22	0.03	104	0.04	104	0.10	BX	DPX	FX	Mat Bridge or equivalent
090314_DB_1005_E_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	60.6	40.736004	-75.393631	Moore Twp	Catasauqua	9	0.00	9	0.01	201	0.04	114	0.12	BX	BX	BX	Mat Bridge or equivalent

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090314_DB_1007_E_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	60.7	40.735815	-75.392502	East Allen Twp	Catasauqua	5	0.00	4	0.01	80	0.03	72	0.07	DPX	FX	DX-NF	Mat Bridge or equivalent
090314_DB_1006_I_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	60.7	40.735773	-75.392255	East Allen Twp	Catasauqua	6	0.00	6	0.01	141	0.06	137	0.13	DPX	FX	DX-NF	Mat Bridge or equivalent
111214_JC_1004_P_IM	East Branch Monocacy Creek	HQ-CWF, MF	III	-	61.5R3	40.734494	-75.377316	East Allen Twp	Catasauqua	24	0.01	24	0.03	181	0.05	119	0.11	DPX	FX	CD	Mat Bridge or equivalent
102715_WA_1002_P_MI	UNT to East Monocacy Creek	HQ-CWF, MF	III	-	62.4R3	40.730341	-75.364596	Upper Nazareth Twp	Nazareth	4	0.00	3	0.00	121	0.07	121	0.12	DPX	FX	CD	Mat Bridge or equivalent
051415_JC_1001_I_MI	UNT to East Branch Monocacy Creek	HQ-CWF, MF	III	-	62.8R3	40.726153	-75.356883	Upper Nazareth Twp	Nazareth	6	0.00	3	0.00	566	0.27	476	0.24	BX	BX	BX	Mat Bridge or equivalent
051415_JC_1002_P_IN	UNT to East Branch Monocacy Creek	HQ-CWF, MF	III	-	63.5	40.724871	-75.342878	Upper Nazareth Twp	Nazareth	23	0.01	19	0.02	108	0.05	105	0.09	DPX	FX	CD	Mat Bridge or equivalent
010615_JC_1000_E_MI	UNT to Lehigh River	CWF, MF	-	-	70.6R3	40.649869	-75.283240	Bethlehem Twp	Nazareth	10	0.00	8	0.01	50	0.02	49	0.04	DPX	FX	DX-NF	Mat Bridge or equivalent
010615_JC_1001_E_MI	UNT to Lehigh River	CWF, MF	-	-	70.7R3	40.649000	-75.283198	Bethlehem Twp	Nazareth	4	0.00	4	0.00	104	0.02	104	0.06	N/A	N/A	N/A	Mat Bridge or equivalent
061416_GM_1001_P_IN	Lehigh Coal and Navigation Canal	WWF, MF	-	-	70.9	40.643062	-75.280289	Bethlehem Twp	Nazareth	-	-	83	0.01	-	-	156	0.00	HDD	HDD	HDD	N/A
031918_WA_1004_P_MA	Lehigh River	WWF, MF	-	-	71	40.641519	-75.280107	Bethlehem Twp	Nazareth	-	-	337	0.02	-	-	705	0.03	HDD	HDD	HDD	N/A
012116_GM_1001_E_IN	UNT to Lehigh River	CWF, MF	-	-	71.4	40.636128	-75.279471	Bethlehem Twp	Nazareth	-	-	9	0.00	-	-	131	0.01	HDD	HDD	HDD	N/A
010615_JC_1002_E_MI	UNT to Bull Run	CWF, MF	III	-	71.7	40.631975	-75.277520	Lower Saucon Twp	Nazareth	-	-	2	0.00	-	-	108	0.01	HDD	HDD	HDD	N/A

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040318_WA_1000_P_MI	UNT to Bull Run	CWF, MF	III	-	72.1	40.628502	-75.272379	Lower Saucon Twp	Nazareth	10	0.00	6	0.01	89	0.04	86	0.08	DPX	FX	CD	Mat Bridge or equivalent
092614_GO_1001_P_MI	UNT to Bull Run	CWF, MF	III	-	72.1	40.628373	-75.272134	Lower Saucon Twp	Nazareth	7	0.00	7	0.01	115	0.06	115	0.12	DPX	FX	CD	Mat Bridge or equivalent
040318_WA_1001_I_MI	UNT to Bull Run	CWF, MF	III	-	72.4	40.625788	-75.267975	Lower Saucon Twp	Nazareth	2	0.00	2	0.00	42	0.00	42	0.03	N/A	N/A	N/A	Mat Bridge or equivalent
031918_WA_1003_I_MI	UNT to Bull Run	CWF, MF	III	-	72.4	40.625754	-75.267798	Lower Saucon Twp	Nazareth	1	0.00	1	0.00	104	0.06	104	0.12	DPX	FX	DX-NF	Mat Bridge or equivalent
031918_WA_1000_P_MI	UNT to Bull Run	CWF, MF	III	-	72.5	40.625349	-75.266954	Lower Saucon Twp	Nazareth	3	0.00	3	0.00	105	0.06	103	0.11	DPX	FX	CD	Mat Bridge or equivalent
051415_JC_1006_E_MI	UNT to Bull Run	CWF, MF	III	-	72.5	40.625087	-75.266321	Williams Twp	Nazareth	4	0.00	204	0.00	299	0.17	299	0.28	DPX	FX	DX-NF	Mat Bridge or equivalent
051415_JC_1005_P_IN	UNT to Bull Run	CWF, MF	III	-	72.5	40.624342	-75.264894	Williams Twp	Hellertown	-	-	-	-	183	0.13	157	0.11	N/A	N/A	N/A	N/A - Workspace
012016_GM_1001_I_MI	UNT to Bull Run	CWF, MF	III	-	72.6	40.623907	-75.264118	Williams Twp	Hellertown	5	0.00	4	0.00	29	0.01	18	0.00	DPX	FX	DX-NF	Mat Bridge or equivalent
102715_WA_1001_P_MI - 1	UNT to Bull Run	CWF, MF	III	-	72.6	40.623853	-75.264152	Williams Twp	Hellertown	66	0.00	22	0.02	247	0.15	247	0.42	DPX	FX	CD	Mat Bridge or equivalent
102715_WA_1001_P_MI - 2	UNT to Bull Run	CWF, MF	III	-	72.7	40.622647	-75.262633	Williams Twp	Hellertown	66	0.01	8	0.02	-	-	-	-	DPX	FX	CD	Mat Bridge or equivalent
012016_GM_1003_I_MI	UNT to Bull Run	CWF, MF	III	-	72.7	40.623831	-75.263938	Williams Twp	Hellertown	4	0.00	0	0.00	9	0.00	-	-	N/A	N/A	N/A	Mat Bridge or equivalent
012016_GM_1002_I_MI	UNT to Bull Run	CWF, MF	III	-	72.7	40.623713	-75.263907	Williams Twp	Hellertown	6	0.00	6	0.01	38	0.02	38	0.01	N/A	N/A	N/A	Mat Bridge or equivalent

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Watercourse ID and Crossing Number ¹	Watercourse Name	Ch 93 Designated/ Existing Use ²	Wild Trout ³	Stocked Trout ⁴	Milepost ⁵	Latitude	Longitude	Municipality ⁶	Quadrangle	Temp. Crossing Length (feet) ⁷	Temp. Impact Area (acres) ⁸	Perm. Crossing Length (feet) ⁹	Perm. Impact Area (acres) ¹⁰	Temp. Crossing Length (feet) ⁷	Temp. Impact Area (acres) ⁸	Perm. Crossing Length (feet) ⁹	Perm. Impact Area (acres) ¹⁰	Primary Pipeline Crossing Method ¹¹	Secondary Pipeline Crossing Method ¹¹	Tertiary Pipeline Crossing Method ¹¹	Temp. Equipment Crossing
102715_WA_1001_I_MI	UNT to Bull Run	CWF, MF	III	-	72.7	40.623170	-75.263291	Williams Twp	Hellertown	2	0.00	2	0.00	104	0.05	104	0.13	DPX	FX	DX-NF	Mat Bridge or equivalent
102715_WA_1002_I_MI	UNT to Bull Run	CWF, MF	III	-	72.7	40.623072	-75.263168	Williams Twp	Hellertown	3	0.00	3	0.00	78	0.04	68	0.06	DPX	FX	DX-NF	Mat Bridge or equivalent
042815_JC_1005_I_MI	UNT to Bull Run	CWF, MF	III	-	72.8	40.621954	-75.261760	Williams Twp	Hellertown	13	0.00	6	0.01	136	0.07	136	0.13	DPX	FX	DX-NF	Mat Bridge or equivalent
042815_JC_1001_E_MI	UNT to Bull Run	CWF, MF	III	-	73	40.620310	-75.259908	Williams Twp	Hellertown	8	0.00	8	0.01	289	0.13	202	0.19	DPX	FX	DX-NF	Mat Bridge or equivalent
042117_GM_1003_P_MI	UNT to Fry's Run	HQ-CWF, MF	III	-	73.6R2	40.619979	-75.249033	Williams Twp	Riegelsville	3	0.00	3	0.00	125	0.06	109	0.12	DPX	FX	CD	Mat Bridge or equivalent
042117_GM_1001_P_MI	UNT to Fry's Run	HQ-CWF, MF	III	-	73.6R2	40.619979	-75.248304	Williams Twp	Riegelsville	26	0.00	6	0.01	132	0.07	132	0.13	DPX	FX	CD	Mat Bridge or equivalent
042418_WA_1005_P_MI	UNT to Fry's Run	HQ-CWF, MF	III	-	73.6R2	40.619979	-75.248248	Williams Twp	Riegelsville	9	0.01	7	0.01	107	0.04	85	0.06	DPX	FX	CD	Mat Bridge or equivalent
042418_WA_1004_P_MI	UNT to Fry's Run	HQ-CWF, MF	III	-	73.7R2	40.619977	-75.246728	Williams Twp	Riegelsville	6	0.00	5	0.01	143	0.07	131	0.13	DPX	FX	CD	Mat Bridge or equivalent
042418_WA_1003_P_MI	UNT to Fry's Run	HQ-CWF, MF	III	-	73.7R2	40.620095	-75.246668	Williams Twp	Riegelsville	3	0.00	-	-	20	0.00	-	-	N/A	N/A	N/A	Mat Bridge or equivalent
042418_WA_1002_I_MI - 2	UNT to Fry's Run	HQ-CWF, MF	III	-	73.7R2	40.619977	-75.246412	Williams Twp	Riegelsville	6	0.00	2	0.00	83	0.03	83	0.09	DPX	FX	DX-NF	Mat Bridge or equivalent
042418_WA_1002_I_MI - 1	UNT to Fry's Run	HQ-CWF, MF	III	-	73.7R2	40.619897	-75.246774	Williams Twp	Riegelsville	6	0.00	6	-	-	-	-	-	N/A	N/A	N/A	Mat Bridge or equivalent
091814_MK_1009_P_IM	Fry's Run	HQ-CWF, MF	III	-	74.6	40.608674	-75.233521	Williams Twp	Riegelsville	14	0.01	15	0.02	101	0.05	99	0.09	DPX	FX	CD	Mat Bridge or equivalent

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062415_BT_1001_P_MI	UNT to Frya Run	HQ-CWF, MF	III	-	74.9	40.606894	-75.229171	Williams Twp	Riegelsville	22	0.02	28	0.03	245	0.13	245	0.24	DPX	FX	CD	Mat Bridge or equivalent
062415_BT_1002_I_MI	UNT to Frya Run	HQ-CWF, MF	III	-	74.9	40.606889	-75.229400	Williams Twp	Riegelsville	5	0.00	5	0.01	59	0.01	56	0.01	DPX	FX	DX-NF	Mat Bridge or equivalent
122016_LZ_1001_P_MI	UNT to Frya Run	HQ-CWF, MF	III	-	75.1	40.605250	-75.226333	Williams Twp	Riegelsville	4	0.00	3	0.00	127	0.07	123	0.13	DPX	FX	CD	Mat Bridge or equivalent
042418_WA_1000_P_MI	UNT to Frya Run	HQ-CWF, MF	III	-	75.2	40.604865	-75.226205	Towamensing Twp	Riegelsville	-	-	-	-	103	0.03	101	0.01	N/A	N/A	N/A	N/A - Workspace
111314_JC_1003_E_MI	UNT to Cooks Creek	EV, MF	III	-	75.7	40.601787	-75.219056	Williams Twp	Riegelsville	3	0.00	2	0.00	10	0.00	7	0.00	DPX	FX	DX-NF	Mat Bridge or equivalent
111314_JC_1002_I_MI	UNT to Cooks Creek	EV, MF	III	-	75.7	40.601783	-75.219050	Williams Twp	Riegelsville	6	0.00	6	0.01	136	0.07	136	0.14	DPX	FX	DX-NF	Mat Bridge or equivalent
111314_JC_1001_I_MI	UNT to Cooks Creek	EV, MF	III	-	75.7	40.601426	-75.218445	Williams Twp	Riegelsville	9	0.00	12	0.01	120	0.04	120	0.11	DPX	FX	DX-NF	Mat Bridge or equivalent
Hellertown Lateral																					
062218_WA_1002_P_IN	Bull Run	CWF, MF	III	-	0.3	40.629789	-75.281329	Lower Saucon Twp	Nazareth	32	0.02	20	0.02	150	0.06	110	0.09	DPX	FX	CD	Mat Bridge or equivalent
Access Roads																					
None																					

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Notes:

- In instances where a watercourse is crossed by the proposed pipeline or workspace multiple times, crossing numbers (e.g. "-1", "-2") have been added to the Watercourse ID.
 Watercourse ID Key: P = perennial, I = intermittent, E = ephemeral, MA = major, IN = intermediate, MI = minor, C = canal, D = ditch
- Sources: PADEP Streams Chapter 93 Existing Use, dated 7/2017 and PADEP Streams Chapter 93 Designated Use, dated 2/2017. If a stream has an existing use, the designated use has been replaced with that value. Available at www.pasda.psu.edu.
- Sources: PFBC Stream Sections that Support Wild Trout Production, dated 8/2018 and PFBC Class A Wild Trout Streams, dated 8/2018. Available at www.pasda.psu.edu. I = Approved Trout Water, II = Wilderness Trout Stream, III = Naturally Reproducing Trout Stream.
- Sources: PASDA Stocked Trout Waters (Flowing Waters), dated 2/2018 and PASDA Trout Stocked Streams, dated 2018. Available at www.pasda.psu.edu.
- All route deviations implemented after the FERC Certificate Application are denoted with an "R" and indicate a MP equation. MPs with an "R1" indicate route deviations implemented and provided to FERC prior to the issuance of the DEIS. MPs with an "R2" indicate route deviations implemented as part of the September 2016 Route Update. MPs with an "R3" indicate route deviations implemented post-FERC Certificate issuance. All MPs without an "R" indicate that the route has not changed since the Certificate Application.
- Sources: PennDOT Pennsylvania municipality boundaries, dated 1/2017 and PennDOT Pennsylvania county boundaries, dated 7/2018. Available at www.pasda.psu.edu.
- Temporary crossing lengths are measured within the temporary workspace parallel to the pipeline or along the access road centerline. A "-" denotes there are no impacts to the watercourse or floodway, as applicable, within the temporary workspace.
- Temporary impact acres are measured within the temporary workspace and additional temporary workspace; the measurement does not include acreages impacted within the 50' permanent ROW. A value of 0.00 denotes impact acreages less than 0.005 acres. A "-" denotes no impacts to the watercourse or floodway, as applicable.
- Permanent crossing lengths are measured along the pipeline centerline, as applicable. In instance where the pipeline does not cross a watercourse or floodway, the permanent crossing length was measured along the edge of the 50' permanent ROW or at the crossing location of a new or replacement culvert. A "-" denotes there are no impacts to the watercourse or floodway, as applicable, within the permanent ROW.
- Permanent impact acres are measured within the 50' permanent ROW, within an aboveground facility footprint, or represents a culvert installation or replacement. For HDDs and bores, the permanent impact is calculated as the length of the crossing times the pipe diameter. A value of 0.00 denotes impact acreages less than 0.005 acres. A "-" denotes no impacts to the watercourse or floodway, as applicable.
- Crossing Type Key for Watercourse Channels:
 - BX = Conventional Bore Crossing
 - CD = Cofferdam Crossing
 - DPX = Dam-and-Pump Crossing
 - DX-NF = Dry Crossing If No Flow
 - FX = Flume Crossing
 - HDD = HDD Crossing
 - N/A = Not Applicable